Science Communication: Giving Group Meeting

Presented by Benjamin Feldman, Ph. D. Created by Anna Burkart Sadusky, Ph.D. NIH Science Skills Boot Camp Monday, June 27, 2011

Know your venue. Know your audience.

- Small group (One PI)
 - Informal round table discussion by one individual or multiple participants



- Formal powerpoint presentation
- Large group (Multiple Pl's)
 - Formal powerpoint presentation



► Talk to your mentor to see what type of group meeting presentation you should prepare

Organization of a Science Talk

- Title Slide
- **Introduction** (state a problem, question or a hypothesis)
- Methods (consider audience members with different expertise)
- Experiments/Results/Data
- **Discussion and Conclusion** (progress on the problem, question or hypothesis)
- Acknowledgements Slide
- Questions?

For longer talks, try an outline



CHAPTER I

FREATS OF THE PLACE WHERE OLIVER TWIST WAS BORN; AND OF

THE CIRCUMSTANCES ATTENDING HIS BIRTH

Charles Dickens

Outline

- 1. The zebrafish model, Nodal signaling, translational uses
- 2. Mxtx2: a key upstream regulator of mesendoderm
- 3. Defining gene regulatory networks in zebrafish

Title Slide

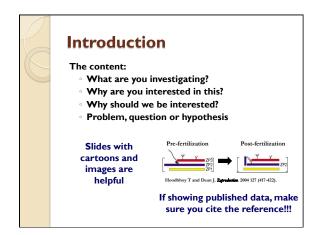
Concise Title for Talk

Your name Your affiliation (lab/school/institute) The date (optional)

Introduction

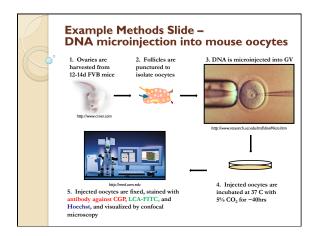
The content:

- What are you investigating?
- Why are you interested in this?
- Why should we be interested?



Methods

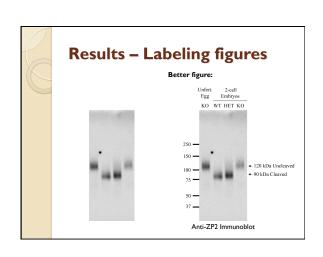
- What approach did you take to address your problem?
- How is it unique from previous approaches?
- How did you optimize conditions?
- Did you troubleshoot?

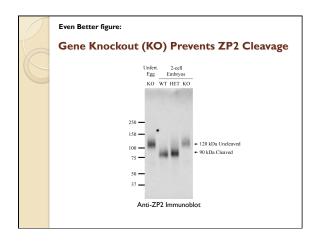


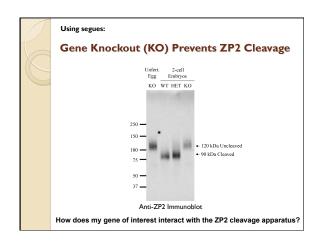
Results

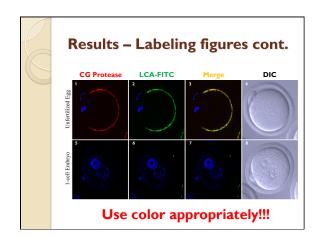
- Be brief and clear
 - Remember your audience
 - Be selective
- · Present your work as a story
- Talk the audience through your data
 - Figures
 - Graphs
 - ∘ Gels
- Everything must be labeled
- Put YOUR conclusion on each slide

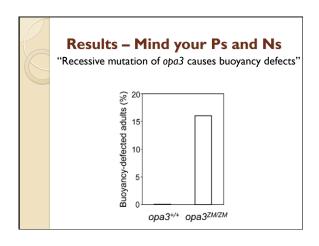


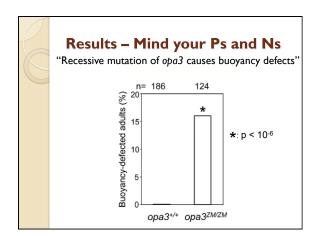


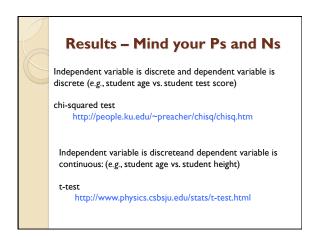


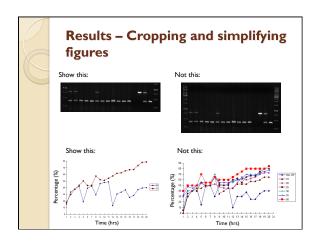


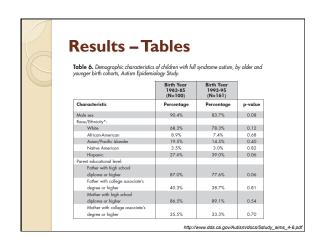












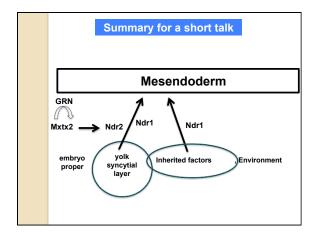
Tell a story, but not a mystery Clear communication trumps historical order

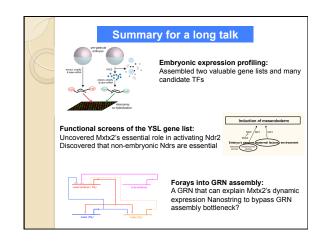
Historical Story Communicative Story

- I started working on X,
 then switched to Y
- When working on Y, I accidently switched samples, revealing Z.
- The Smith lab is interested in Y, which I am working on.
- An open question about Y is whether Z or Q. I will show you how I found Z to be the answer with the help of a fortuitous accident.

Summary/Conclusions

- Condense major results and their implications into bullet points
- Connect back to introduction
- · Limit number of points
- If you have a model, present in cartoon form (optional)





Acknowledgements

List the names of people who helped you

- Your mentor(s)
- Lab members
- Collaborators
- · People who provided reagents
- Funding source

How many slides do you need?

- a. I slide/ 30 seconds
- b. I slide/ I minute
- c. I slide/ 2 minutes
- d. It depends

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Tips for Slide Preparation - Color

Color Choice:

Best choices for good visibility:

Dark colors on white or light background Dark colors on white or light background

White or yellow on dark background

Never use yellow on white background

Avoid using blue/red on a dark background

Tips for Slide Preparation - Fonts

- Use large, clear font
- 14-16 point minimum (this is 28)
- Small fonts are hard to see (12 point)
- Even smaller fonts are impossible to see (8 point)
- Fancy fonts are hard to read
- Bold increases readability
- AVOID USING ALL CAPITAL LETTERS BECAUSE IT'S MUCH HARDER TO READ

Tips for Slide Preparation - Text

- Rule #1: Limit text
- Use bullet points
- No paragraphs
- Consider bringing in text one line at a time
- All text must be readable
- Check for typos

Dealing with Questions

- Be prepared for interruptions
- Clarify the question if you don't understand
- Pause and think before you answer
- Be polite
- Keep your answers brief
- It's OK not to know the answer do not try to make something up!

Helpful hints:

- Practice! Practice! Practice!
- Memorize your first few slides
- Take deep breaths
- Bring a water bottle
- Bring your lab notebook
- Remember: you are the expert on your own project!

Thanks!

If you have any questions, feel free to contact me:

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Sample conclusion slide – The Fertilization Process

- I. Fertilizing sperm encounter ovulated eggs in the oviduct
- 2. Sperm-egg recognition and binding
- 3. Zona penetration
- 4. Sperm fusion
- Cortical granule exocytosis induces zona block to penetration and ZP2 cleavage: NO MORE SPERM BINDING

